

In the Claims:

- 1 1. (original) A method for processing and reusing gray water  
2 for flushing a toilet bowl, comprising the following steps:  
3 a) filtering said gray water to provide filtered water,  
4 b) collecting said filtered water in a processing tank,  
5 c) processing said filtered water by anodically oxidizing  
6 said filtered water in said processing tank to provide  
7 processed water, and  
8 d) using said processed water for flushing said toilet  
9 bowl in a toilet.
- 1 2. (original) The method of claim 1, wherein said filtering  
2 step comprises a coarse filtering operation and a fine  
3 filtering operation for removing dirt, coloring agents, and  
4 odor causing agents from said gray water.
- 1 3. (original) The method of claim 2, wherein said fine  
2 filtering is performed in said processing tank and said  
3 coarse filtering is performed outside said processing tank.
- 1 4. (original) The method of claim 3, further comprising using  
2 an exchangeable, externally accessible fine filter in said  
3 processing tank.
- 1 5. (original) The method of claim 3, further comprising using  
2 an exchangeable, externally accessible coarse filter in a  
3 lavatory basin or next to a lavatory basin.

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1 6. (original) The method of claim 1, wherein said step of  
2 anodically oxidizing is performed to such an extent that  
3 germ growth is prevented in or on any component of a water  
4 distribution system through which said processed water is  
5 distributed.

1 7. (original) The method of claim 1, further comprising  
2 detecting through a sensor at least one filling level in  
3 said processing tank to produce a control signal for  
4 controlling a water flow.

1 8. (original) The method of claim 1, further comprising  
2 providing an overflow discharge in said processing tank and  
3 feeding said overflow discharge into a gray water  
4 collecting conduit.

1 9. (original) The method of claim 8, further comprising  
2 leading said gray water collecting conduit into an outboard  
3 draining mast or device.

1 10. (currently amended) The method of claim 8, further  
2 comprising leading said gray water collecting conduit into  
3 a gray water collecting container. ~~container near a~~  
4 ~~wastewater collecting tank.~~

1 11. (currently amended) ~~[[the]]~~ The method of claim ~~[[107]]~~ 26,  
2 further comprising pressurizing said gray water and passing

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3 pressurized gray water through spray nozzles for rinsing  
4 said wastewater collecting tank and other system  
5 components.

1 12. (original) The method of claim 7, further comprising  
2 detecting said at least one filling level as a minimum  
3 filling level, producing said control signal as a minimum  
4 level control signal for controlling a fresh water supply  
5 faucet of a lavatory basin in a toilet for replenishing  
6 water in said processing tank to a medium filling level  
7 from a fresh water supply.

1 13. (original) The method of claim 12, further comprising  
2 sensing an unoccupied status of said toilet to provide an  
3 unoccupied control signal, and automatically opening said  
4 fresh water faucet only in response to said minimum level  
5 control signal and in response to said unoccupied control  
6 signal.

1 14. (currently amended) The method of claim 12, further  
2 comprising using an infrared detector and a toilet door  
3 switch for producing an "occupied" signal to disable said  
4 automatic opening of said fresh water supply faucet when  
5 said toilet is occupied.

1 15. (original) The method of claim 1, further comprising  
2 monitoring and controlling all system functions, status

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3 characteristics and operations through a central processing  
4 unit and respective sensors.

1 16. (original) The method of claim 15, further comprising  
2 presetting in said central processing unit a defined  
3 temperature range for water passing through a faucet in  
4 said lavatory or toilet.

1 17. (original) The method of claim 1, further comprising  
2 sensing a plurality of filling levels including a maximum  
3 filling level and a minimum filling level in said  
4 processing tank to produce respective control signals for  
5 controlling the withdrawal of processed water from said  
6 processing tank so that more processed water is withdrawn  
7 from said processing tank in response to a higher filling  
8 level signal and less processed water is withdrawn from  
9 said processing tank in response to a lower filling level  
10 signal.

1 18. (currently amended) The method of claim 1, further  
2 comprising sensing a plurality of filling levels including  
3 a high filling level and a low filling level in said  
4 processing tank to produce respective high filling level  
5 and low filling level control signals for controlling a  
6 fresh water supply through a faucet ~~[[of]]~~ and a lavatory  
7 basin in such a way so that a larger fresh water volume is  
8 supplied into said processing tank through said faucet and  
9 lavatory basin ~~into said processing tank~~ in response to

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10 said low filling level signal and a smaller fresh water  
11 volume is supplied into said processing tank through said  
12 faucet and lavatory basin ~~into said processing tank~~ in  
13 response to said high filling level control signal.

1 19. (original) An apparatus for processing and reusing gray  
2 water, said apparatus comprising:

- 3 a) at least one filter having a filter inlet connected to  
4 a source of said gray water, and a filter outlet,  
5 b) a processing tank having an inlet connected to said  
6 filter outlet,  
7 c) means for anodically oxidizing filtered water in said  
8 processing tank to provide processed, oxidized water,  
9 and  
10 d) a pump connected with a pump inlet to said processing  
11 tank, an excess pressure valve connected to an outlet  
12 of said pump, at least one rinsing spray nozzle  
13 installed in a toilet bowl and connected to said  
14 excess pressure valve for rinsing said toilet bowl in  
15 response to a generated control signal for a  
16 predetermined time interval at the end of which said  
17 pump is automatically switched off and said excess  
18 pressure valve is closed again.

1 20. (original) The apparatus of claim 19, wherein said pump is  
2 a rotary pump.

1 21. (original) The apparatus of claim 19, wherein said pump  
2 comprises a cylinder and a piston in said cylinder, said  
3 apparatus further comprising a detector positioned for  
4 detecting an end position of said piston indicating that  
5 processed water in said cylinder has been discharged, said  
6 detecting providing a control signal, a motor responsive to  
7 said control signal for driving said piston back into a  
8 starting position, whereby processed water is sucked into  
9 said cylinder for a next toilet bowl rinse.

1 22. (original) The apparatus of claim 19, further comprising a  
2 central control unit, sensors for providing status signals  
3 to said central control unit, at least one first power  
4 supply for said pump, a faucet for supplying fresh water to  
5 a lavatory basin, at least one second power supply for a  
6 faucet control, a suction device connected to said toilet  
7 bowl, and at least one third power supply for said suction  
8 device, and wherein said central control unit controls said  
9 first, second and third power supplies in response to said  
10 control signals.

1 23. (original) The apparatus of claim 22, further comprising a  
2 communication area network (CANBUS) to which said central  
3 control unit is connected for communicating with other  
4 systems.

1 24. (original) The apparatus of claim 19, further comprising  
2 separate conduits for freshwater, gray water and waste

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3 water, and wherein a direct connection between said  
4 conduits is avoided.

1 25. (original) The apparatus of claim 19, installed in an  
2 aircraft.

1 26. (new) The method of claim 10, further comprising locating  
2 said gray water collecting container near a wastewater  
3 collecting tank.

1 27. (new) The method of claim 18, further comprising starting  
2 replenishing water in said processing tank in response to  
3 said low filling level control signal and stopping said  
4 replenishing in response to said high filling level control  
5 signal when water in said processing tank reaches said high  
6 filling level.

[RESPONSE CONTINUES ON NEXT PAGE]

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